

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
 or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

21005

7590

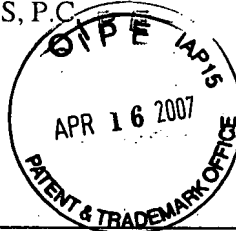
02/09/2007

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HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 530 VIRGINIA ROAD
 P.O. BOX 9133
 CONCORD, MA 01742-9133

04/17/2007 SSITHIB2 00000016 10804828

01 FC:1501 1400.00 OP
 02 FC:1504 300.00 OP
 03 FC:8001 45.00 OP



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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Donna Boudreau

(Depositor's name)

Donna Boudreau

(Signature)

April 12, 2007

(Date)

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
|-----------------|-------------|----------------------|---------------------|------------------|

10/804,828

03/19/2004

Qingsheng Zheng

1086.2017-001

7115

TITLE OF INVENTION: METHODS AND ARTICLES FOR DETECTING, VERIFYING, AND REPAIRING COLLINEARITY IN A MODEL OR SUBSETS OF A MODEL

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|-------------|--------------|---------------|---------------------|----------------------|------------------|----------|
|-------------|--------------|---------------|---------------------|----------------------|------------------|----------|

nonprovisional

NO

\$1400

\$300

\$0

\$1700

05/09/2007

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|----------|----------|----------------|
|----------|----------|----------------|

PHAM, THOMAS K

2121

700-031000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

Hamilton, Brook, Smith
 & Reynolds, P.C.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Aspen Technology, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Cambridge, MA 02141

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☒ Advance Order - # of Copies 15

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☒ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 08-0380 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

H. Joon Chung

Date

4/12/07

Typed or printed name

H. Joon Chung

Registration No.

52,748

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Qingsheng Zheng, Magiel J. Harmse, Kent Rasmussen and Blaine McIntyre

Application No.: 10/804,828


Group: 2121

Filed: March 19, 2004

Examiner: Thomas K. Pham

Confirmation No.: 7115

For: METHODS AND ARTICLES FOR DETECTING, VERIFYING, AND
REPAIRING COLLINEARITY IN A MODEL OR SUBSETS OF A
MODEL

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| CERTIFICATE OF MAILING OR TRANSMISSION | |
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| April 12, 2007 Date |  Signature |
| Donna Boudreau | |
| Typed or printed name of person signing certificate | |

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is an Amendment After Allowance Under 37 CFR § 1.312 for filing in the above-identified application.

- ☐ Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a Small Entity Statement previously submitted.
- ☐ A Small Entity Statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed.

The claims fee has been calculated as shown below:

| | | | | | SMALL ENTITY | | OTHER THAN SMALL ENTITY | | |
|--|----------------------------------|-------|---------------------------------|---------------|--------------|------------|-------------------------|--------------|------------|
| | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NO. PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE | ADDIT. FEE | OR | RATE | ADDIT. FEE |
| TOTAL | 32 | MINUS | * 32 | 0 | X \$ 25 | \$ | | X 50 | \$ 0 |
| INDEP | 4 | MINUS | ** 4 | 0 | X \$100 | \$ | | X \$200 | \$ 0 |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM | | | | | + | \$180 | \$ | + | \$360 |
| | | | | | TOTAL = \$ 0 | | | TOTAL = \$ 0 | |

* not fewer than 20
** not fewer than 3

The Application Size Fee has been calculated as shown below:*(Effective for cases filed on or after December 8, 2004)*

| Actual Sheets (Including current amendment) | Highest No. of Sheets Paid For (At least 100) | No. of Additional Units Required (Increments of 50 sheets) | SMALL ENTITY | | OTHER THAN SMALL ENTITY | | Payment Sufficient for up to [] Sheets |
|---|---|--|--------------|-------------------|-------------------------|-------------------|--|
| | | | Rate | Total Amount Owed | Rate | Total Amount Owed | |
| | | | X \$125 | \$[] | X \$250 | \$[] | |

Petition for Extension of Time

- ☐ Applicant hereby petitions to extend the time to respond to the [] dated [] for [] month(s) from [] to []. The appropriate fee is set forth below.
- ☐ *[For action-specific language in an extension of time, select the appropriate option from the Firm Templates]*

Please charge Deposit Account No. 08-0380 for the following fees:

| | | | |
|--------------------------|---|----|-------|
| <input type="checkbox"/> | Petition for [] month Extension of Time | \$ | _____ |
| <input type="checkbox"/> | Claims Fee | \$ | _____ |
| <input type="checkbox"/> | Application Size Fee | \$ | _____ |
| <input type="checkbox"/> | Other Fees: | \$ | _____ |
| | | \$ | _____ |
| | | \$ | _____ |
| TOTAL: | | \$ | _____ |

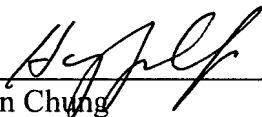
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| | | | |
|-------------------------------------|---|----|-------|
| <input type="checkbox"/> | Petition for [] month Extension of Time | \$ | _____ |
| <input type="checkbox"/> | Claims Fee | \$ | _____ |
| <input type="checkbox"/> | Application Size Fee | \$ | _____ |
| <input checked="" type="checkbox"/> | Other Fees: | | _____ |
| | Issue Fee and Publication Fee | \$ | 1,745 |
| | | \$ | _____ |
| TOTAL: | | \$ | 1,745 |

- ☒ Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

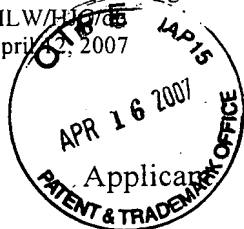
Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 
H. Joon Chung
Registration No.: 52,748
Telephone (978) 341-0036
Facsimile (978) 341-0136

Concord, Massachusetts 01742-9133

Dated: 4/12/07



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Qingsheng Zheng, Magiel J. Harmse, Kent Rasmussen and Blaine McIntyre

Application No.: 10/804,828

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|---|---|
| CERTIFICATE OF MAILING OR TRANSMISSION | |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on: | |
| <u>April 12, 2007</u> Date | <u><i>Donna Boudreau</i></u> Signature |
| <u>Donna Boudreau</u> Typed or printed name of person signing certificate | |

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- ☐ [For action-specific language in an extension of time, select the appropriate option from the Firm Templates]

Please charge Deposit Account No. 08-0380 for the following fees:

| | | | |
|--------------------------|--|----|--|
| <input type="checkbox"/> | Petition for [] month Extension of Time | \$ | |
| <input type="checkbox"/> | Claims Fee | \$ | |
| <input type="checkbox"/> | Application Size Fee | \$ | |
| <input type="checkbox"/> | Other Fees: | \$ | |
| | | \$ | |
| | | \$ | |
| TOTAL: | | \$ | |

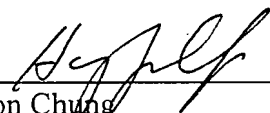
A check is enclosed in payment of the following fees:

| | | | |
|-------------------------------------|--|----|-------|
| <input type="checkbox"/> | Petition for [] month Extension of Time | \$ | |
| <input type="checkbox"/> | Claims Fee | \$ | |
| <input type="checkbox"/> | Application Size Fee | \$ | |
| <input checked="" type="checkbox"/> | Other Fees: | | |
| | Issue Fee and Publication Fee | \$ | 1,745 |
| | | \$ | |
| TOTAL: | | \$ | 1,745 |

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HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By 
H. Joon Chung
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Dated: 4/12/07